



Figure 1 (A) Shows the indinavir related cheilitis and (B) after discontinuation of indinavir.

reversed on changing from indinavir to an alternative PI.² We report a case of cheilitis associated with indinavir which resolved rapidly on changing treatment.

A 35 year old African man developed cheilitis (fig 1A) 5 months after commencing HAART with stavudine, lamivudine, and indinavir. His CD4 lymphocyte count at that time was 238 cells $\times 10^6/l$, with an HIV viral load of 78 copies per ml (Chiron bDNA assay version 3). He had a medical history of granulomatous uveitis of undetermined cause, which developed before HAART. It responded to prolonged treatment with oral prednisolone 40 mg daily and has since remained quiescent. The oral corticosteroids were tailed off and finally discontinued a month before the cheilitis developed. Following the development of cheilitis, further investigations showed: positive IgG antinuclear antibodies with a homogeneous pattern and a titre of 1 in 320; rheumatoid factor positive 1 in 40; anti-Ro and anti Scl-70 both negative; serum angiotensin converting enzyme 75 U/l (normal range 20–95); chest x ray normal; C reactive protein 1 mg/l; erythrocyte sedimentation rate 4 mm in the first hour. Biopsy of the lip showed acanthosis and parakeratosis without associated inflammation. It was initially considered that the cheilitis might be an autoimmune phenomenon, but topical treatment with Eumovate (clobetasone butyrate, GlaxoWellcome) failed to improve the condition, which persisted for 10 months until the indinavir was changed to efavirenz. At the time of changing therapy his CD4 count was 418 cells $\times 10^6/l$, with an HIV viral load below detection. Within a week of changing therapy the cheilitis resolved completely (fig 1B).

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- 1 Lenhard JM, Weil JE, Paulik MA, *et al*. Stimulation of vitamin A1 acid signalling by the HIV protease inhibitor indinavir. *Biochem Pharmacol* 2000;59:1063–8.
- 2 Bouscarat F, Prevot MH, Matheron S. Alopecia associated with indinavir therapy. *N Engl J Med* 1999;341:618.

Accepted for publication 19 June 2000

BOOK REVIEW

Chlamydia Intercellular Biology Pathogenesis and Immunity. Ed Richard S Stevens. \$84.95. American Society for Microbiology, 1999. ISBN 1-55581-155-8

This book is a must for anyone interested in how this fascinating organism causes damage. The first part reviews the knowledge on the molecular phylogeny, genomic autobiography, developmental biology, and metabolism of chlamydiae. It shows how far our knowledge of the organism has broadened in the past few years, particularly as gene sequencing has changed our view of chlamydiae. Until this was made available, metabolic studies on chlamydiae were hampered by its intracellular obligate nature, lack of knowledge of the enzyme pathways, and the relatively small genome which suggested very limited metabolic activity. It now becomes apparent that the organism, which we believed to be biologically crippled, has quite sophisticated biosynthetic capabilities. This opens the way to creating a non-cell dependent culture system in the future.

A chapter by Ted Hackstadt on the cell biology shows a whole spectrum of novel interactions with the host cell that contribute to the success of the genus as pathogens. This is followed by an excellent chapter by Julius Schachter on infection and disease epidemiology. He makes the interesting point that given that some individuals lose antibody over time it is possible that almost all humans have met the organism at sometimes in their lives. This may be quite important in understanding some of the longer term consequences of chlamydial infections, where the organism may not be isolated and antibody tests may be negative. These sequelae are covered in subsequent chapters by Michael Ward, Robert Brunum, and Roger Rank. Since all three concentrate on immunological response to chlamydia there is bound to be some overlap, but also some differences and interesting emphasis. For example Ward plays down the current obsession with cross reactions between chlamydia and human heat shock proteins.

A lot of our information, particularly on the immunology, comes from animal studies and their relevance to human pathology remains to be established. In an excellent final chapter Penelope Hitchcock points to the future directions of research. In particular, she laments that little research has been done in men with chlamydia. Certainly the book is rather short on discussion of the male. There is also a need to find a male model for pathogenesis. Non-gonococcal urethritis maybe a suitable, and easily accessible, marker of chlamydial infection in men and deserves more in-depth study. Much more research also needs to be done, particularly, on clinically inapparent infections in the human. This book is a must for all those interested in this fascinating organism. Perhaps while not losing site of the "why" and the "how" of sexual transmission we should also divert some resources into the "how" of its damage.

M SHAHMANESH

NOTICES

International Herpes Alliance and International Herpes Management Forum

The International Herpes Alliance has introduced a website (www.herpesalliance.org) from which can be downloaded patient information leaflets. Its sister organisation the International Herpes Management Forum (website: www.IHMF.org) has launched new guidelines on the management of herpesvirus infections in pregnancy at the 9th International Congress on Infectious Disease (ICID) in Buenos Aires.

Pan-American Health Organization, regional office of the World Health Organization

A catalogue of publications is available online (www.paho.org). The monthly journal of PAHO, the Pan American Journal of Public Health, is also available (subscriptions: pubsvc@tsp.sheridan.com).

MSSVD Clinical Developments Fund

The MSSVD Clinical Developments Fund is asking for applications for funding to support projects that advance the understanding and practice of genitourinary medicine. An amount of £10 000 is available to one or more successful applicant(s). Closing date for application is 25 August 2000. Further details: Dr Keith Radcliffe, Honorary Assistant Secretary MSSVD, Whitall Street Clinic, Whitall Street, Birmingham B4 6DH (tel: 0121 237 5719; fax: 0121 237 5729; email: keith.radcliffe@bscht.wmids.nhs.uk).

3rd Congress of the Baltic Association of Dermatovenereology, 7–9 September 2000, Riga, Latvia

Further details: Professor Andris Y Rubins, Department of Dermatovenereology, Medical Academy of Latvia, K Valdemara Street, 76–75, Riga, LV-1013, Latvia (tel: +(371) 7370395; fax: +(371) 7361615; email: arubins@apollo.lv).

National NCCG Update Meeting, Bromsgrove Stakis Hotel, 23–24 September 2000

Further details: Kathy Taylor (tel: 01384 235207; email: palmtraining@tesco.net).

11th Regional Meeting of International Union against Sexually Transmitted Infections, South East Asian and Western Pacific Branch and 24th National Conference of Indian Association for the Study of Sexually Transmitted Diseases and AIDS, 13–15 October 2000, Chandigarh, India

Further details: Dr Bhushan Kumar, Organising Secretary, 11th Regional Meeting of IUSTI-Asia Pacific (SE Asia and W Pacific Branch), Department of Dermatology, Venereology and Leprosy, PGIMER, Chandigarh - 160 012, India (tel: +91 (0172) 745330; fax: +91 (0172) 744401/745078; email: kumarbhushan@hotmail.com).